

Louisiana Transportation Research Center



Pavement Research Facility

Instrumentation and Data Collection at LTRC's Pavement Research Facility

- **Weather Data**
- **Pavement Instrumentation**
- **Other Non-Destructive Data**

Purpose

To Measure Actual Stress
and Strains within the
Pavement Structure as it
Relates to Load Response

Weather Data

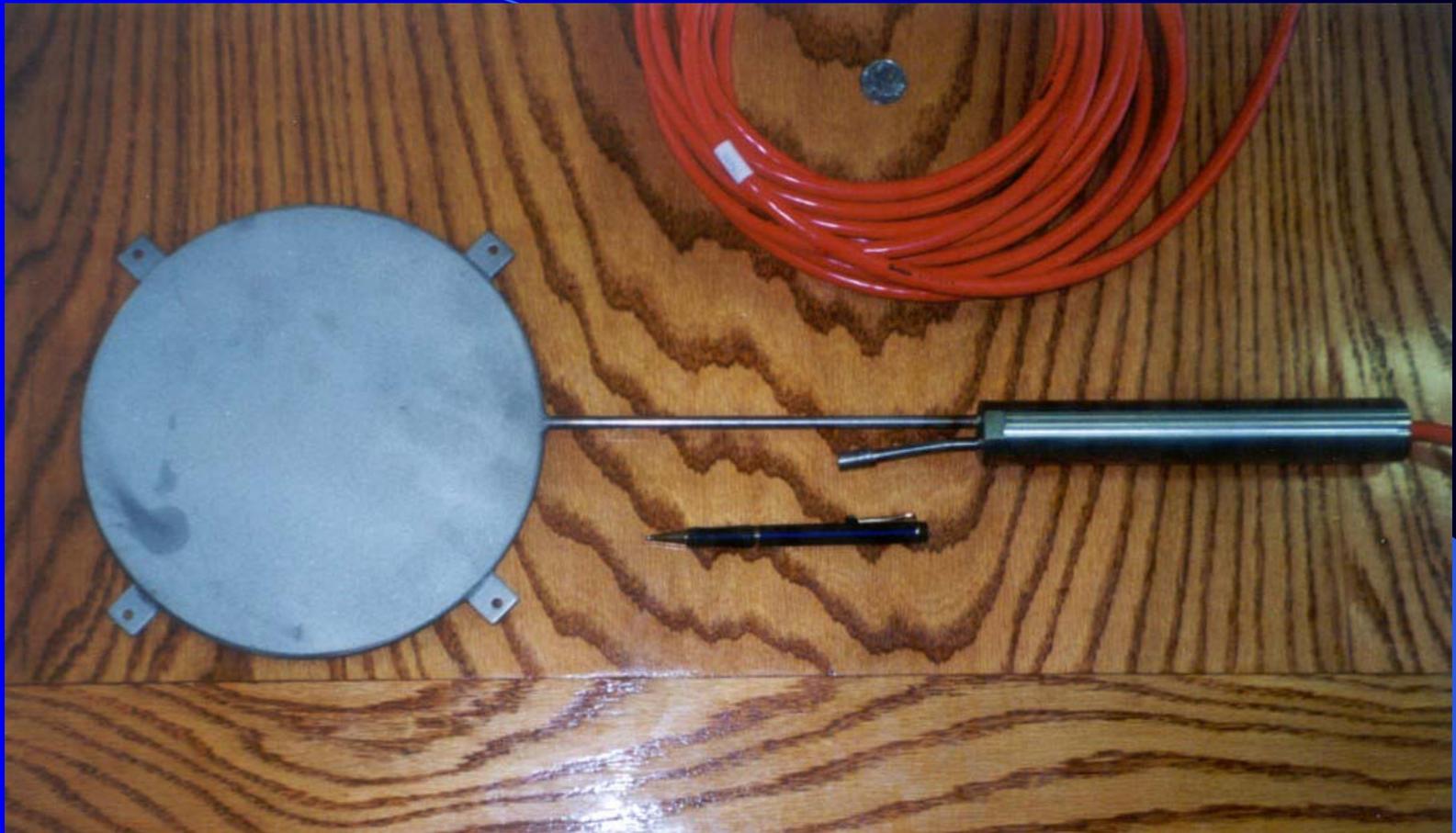


Campbell Scientific Weather Station Measurements

- Temperature
- Relative Humidity
- Wind Speed and Direction
- Barometric Pressure
- Solar Wattage
- Rain Fall and Density

Pavement Instrumentation

- Pressure Cells
- Strain Gages
- Data Acquisition System



Geokon Model 3500 Pressure Cell



TML Model KM-100-HAS Strain Gage

Other Non-Destructive Data Collection

- Falling Weight Deflectometer
- Dynaflect
- ALF Profiler
- LTRC Rut Measuring Device
- Pavement Distress Surveys (Crack Mapping)



Falling Weight Deflectometer



Dynatest Device



Rut Measuring Device

Gage Installation





The background is a solid blue color. A white curved line starts from the top left and curves towards the bottom right. A white circular shape is partially visible in the bottom right corner, overlapping the blue background.

Pavement Instrumentation